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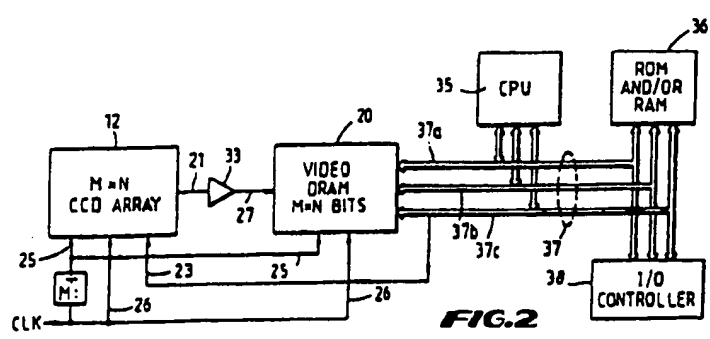
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Bar code reader.

In a bar code reader, a field of view which includes a symbol to be read is imaged upon a light-responsive array such as a CCD imager device (12). The output of this array is transferred to a memory (20) array to provide a bit-mapped type of binary representation of the image including the symbol. The memory is scanned (instead of the field of view itself being mechanically scanned) to recognize and decode the symbol. Because the angular orientation of the symbol is variable, this binary representation may be interpreted to determine how the memory array is to be scanned to recognize the bar code

symbol. For example, the distinctive patterns of characters used in bar codes may be found by scanning the memory and the relative positions of these patterns interpreted to determine the position, size and shape of the symbol in the memory (20), thereby defining at what angular displacement the memory array need be addressed to traverse the rows of the bar code symbol. Or, the memory array may be simply scanned using preselected scan lines (beginning with a raster-type scan) until code recognition is obtained.

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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (int. Cl.5)
X.Y	EP-A-0 085 495 (NIPPONDENSO CO) * abstract: claims 1-4: figure 1 ** pages 1 - 6, line 5 @ page 26, line 20 - page 28, line 7 * - - -	1-2,3-10	G 06 K 7:10
Y.P.A	WO-A-8 906 017 (DREXLER TECHNOLOGY CORPORATION) * abstract: claims 1-5, 8-13 ** pages 1 - 4, line 27 * - - - - -	3-10,1-2	
			TECHNICAL FIELDS SEARCHED (int. Cl.5)
			G 06 F
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		03 December 90	BEAUCE G.Y.G.
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding document			